

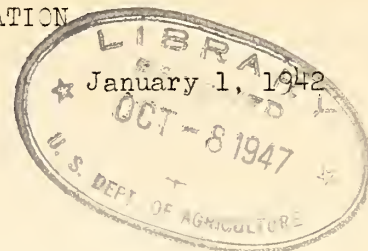
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U. S. Department of Agriculture - Forest Service  
CENTRAL STATES FOREST EXPERIMENT STATION  
In Cooperation With  
SHAWNEE NATIONAL FOREST

VOLUME TABLE 1/  
for  
WHITE OAK  
(Quercus alba)



UNION, JACKSON, and HARDIN COUNTIES, ILLINOIS

Merchantable Stem to a Variable Top Diameter Scribner Decimal C Log Rule in Tens

Diameter breast high (o.b.) Inches	Gross volume of stem in 16.3-foot logs to merchantable height:						Top d.i.b. at merchantable limit	Basis in trees
	1 log	1½ logs	2 logs	2½ logs	3 logs	3½ logs	4 logs	
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Number
10	3	3					7.3	4
11	4	4					7.7	2
12	4	6	7				8.2	4
13	6	7	8	10			8.6	6
14	7	9	10	12			9.2	7
15	8	10	12	14			9.6	7
16	10	12	15	17	19	21	10.2	3
17	12	15	18	20	22	22	10.7	6
18	14	17	21	24	26	29	11.2	8
19	16	20	24	27	31	34	11.8	2
20	18	23	28	32	35	39	12.2	4
21		26	31	36	40	44	12.8	3
22		30	36	41	46	50	13.4	3
23		34	40	46	52	57	14.0	2
24			45	52	58	64	14.6	1
25			51	58	65	71	15.2	3
26			56	65	72	79	15.9	1
27			63	72	80	88	16.6	4
28			69	79	88	97	17.4	1
29			76	87	98	107	18.2	3
30			84	96	107	117	19.0	2
31			91	105	117	128	19.8	3
32			100	114	128	140	20.8	2
33				124	139	152	21.8	2
34				135	151	165	22.9	1
35				146	163	179	24.1	-
36				158	176	193	25.4	2
37					190	208	26.8	1

Basis in trees-- number	10	16	17	19	7	10	8	--	87
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1/ Data taken in Union County at Huston Hollow and at Grimsby; in Jackson County at Cedar Creek Hill by O. P. Stabo of the U. S. Forest Service, Shawnee National Forest; and in Hardin County at the Kaskaskia Experimental Forest by J. G. Kuenzel and C. E. Sutton of the Central States Forest Experiment Station. Scaled as 16.3-foot log lengths above a 1.0-foot stump and as 8.15-foot top logs.

Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) was .99. Standard error of estimate is approximately 14 percent of estimated volume. Block shows the limits of basic data.

R. E. EMMER  
J. G. KUENZEL  
L. F. KELLOGG

